MANITOBA'S

LABOUR FORCE PROJECTIONS

1996 - 2021

MBS 99-4

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JULY 1999

EXECUTIVE SUMMARY

This report presents the projected labour force population, participation rates, and labour force for Manitoba, by age group and sex, for the period 1999 to 2021. Highlights of these projections are as follows:

1. The projected **labour force population** for Manitoba increases by 8.3%, from 863,000 in 1998 to 935,000 in 2021. The female portion is to increase 8.4% from 440,000 to 477,000, and the male portion is to increase 8.3% from 423,000 to 458,000 during the projection period.

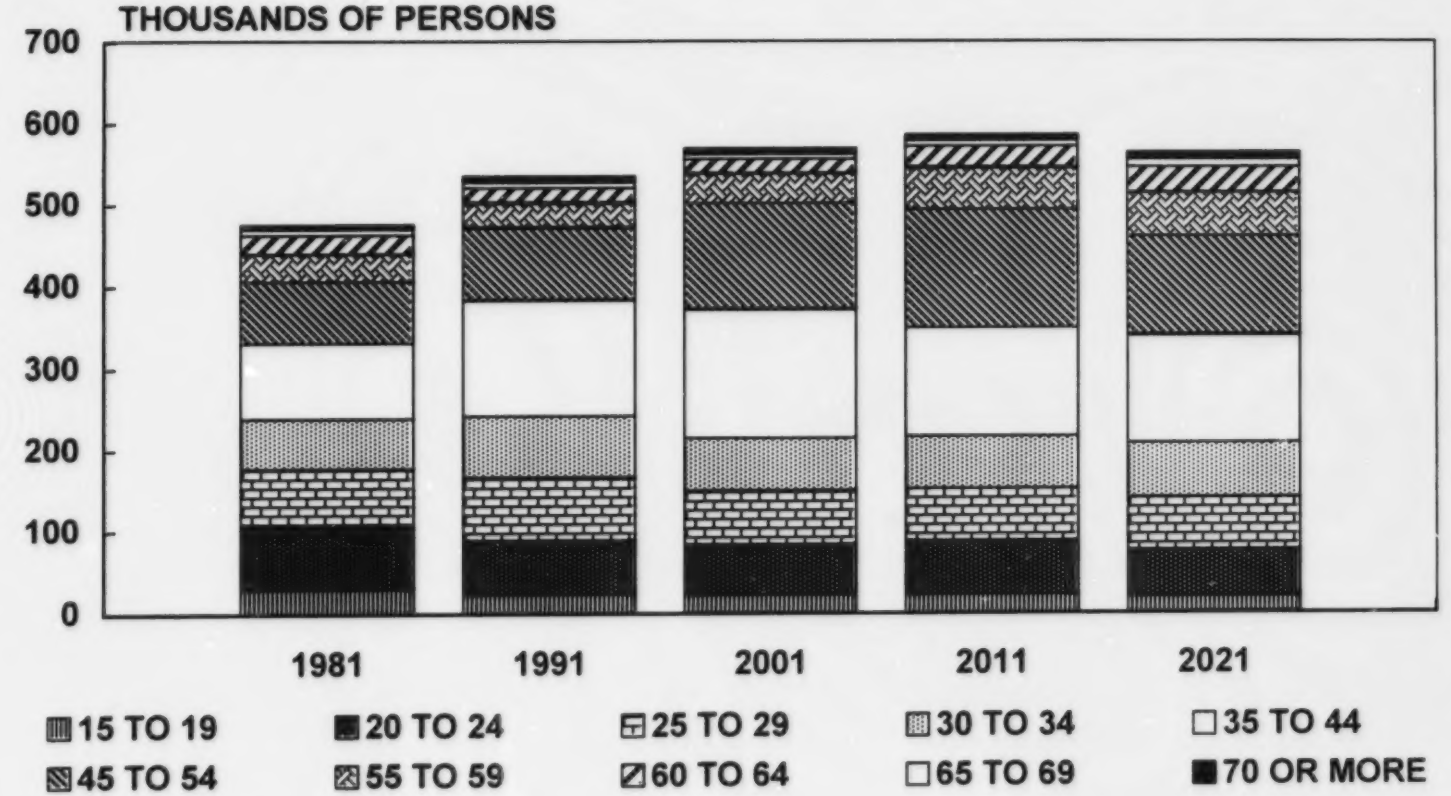
2. The projected **participation rate** for Manitoba decreases from 67.1% in 1998 to 62.1% in 2021. The participation rate for females aged 15 and over is projected to fall 4.8 points from 59.8% in 1998 to 55.0% in 2021, while the participation rate for males in the labour force population is projected to decrease 5.1 points, from 74.7% to 69.6%.

3. The projected **labour force** for Manitoba increases by 4.5% from 579,000 in 1998 to a peak of 605,000 in 2010 before decreasing to end up at 581,000 by the end of the projection period. The female portion is to increase 4.6% from 263,000 to a maximum of 275,000 in 2010 before decreasing to 262,000. The male portion is to increase 4.7% from 316,000 and then crest in 2011 at 331,000 before decreasing to 319,000 by the end of the projection period.

4. Over the course of the projection period, there are marked changes in the group composition of the **labour force** of Manitoba. The largest segment in 1999, the 35 to 44 age group, is surpassed by the 45 to 54 age group by 2007, only to regain superiority by 2018.

   Of the seven 5 year age groups, the 15 to 19 year old age category is currently ranked third. However, over the projection period, the 55 to 59 age group, currently fourth, is projected to take over the younger age group.

MANITOBA LABOUR FORCE BY AGE GROUP: 1981 TO 2021 HISTORICAL AND PROJECTED



MANITOBA BUREAU OF STATISTICS

JULY 1999

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TABLE OF CONTENTS

	Page
Executive Summary	1
Introduction	5
Projected Labour Force Population	7
Projected Participation Rates	9
Projected Labour Force	11

APPENDICIES

A Projected Labour Force Population Tables	13
B Projected Participation Rate Tables	16
C Projected Labour Force Charts/Tables	20
D Participation Rate Charts (1976 to 2021)	25
E Methodology	35

INTRODUCTION

This report presents the projected Manitoba labour force population, participation rates and labour force for the period 1996 to 2021. These items, which have been projected by sex and age group, are defined below:

1) **Labour Force Population -** the civilian, non-institutionalized population aged 15 years and over

2) **Participation Rate -** the percentage of the labour force population that is in the labour force

3) **Labour Force -** the number of persons that are either employed or unemployed

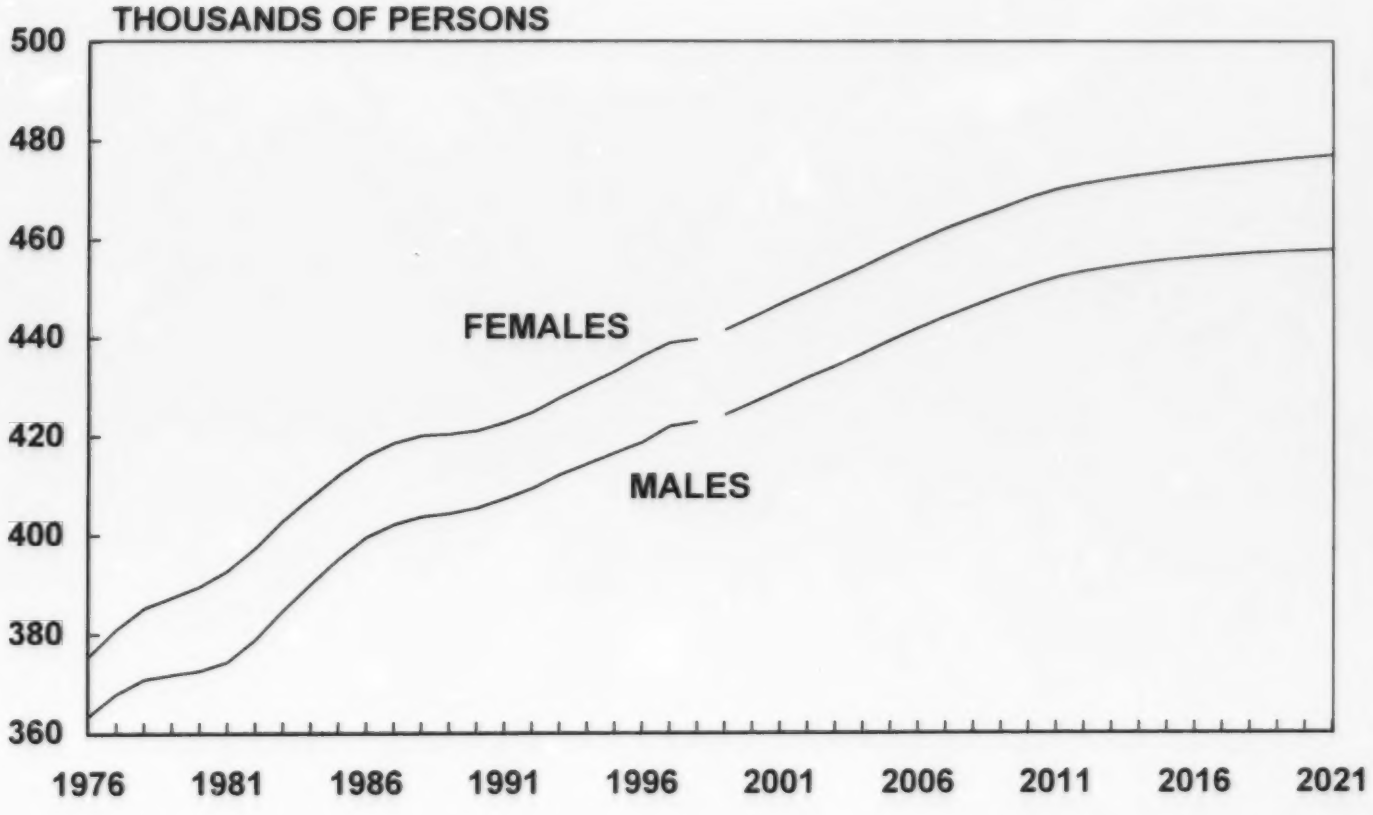
Historical data (1976 to 1998 annual averages) on Manitoba's age and sex specific participation rates and labour force were obtained from the Statistics Canada Labour Force Survey. The labour force population projections were based on the Manitoba Bureau of Statistics report **Manitoba Population Projections 1996 - 2031**.

Participation rates were projected for the years 1999 to 2021 for males and females in each age group: 15 - 19, 20 - 24, 25 - 29, 30 - 34, 35 - 44, 45 - 54, 55 - 59, 60 - 64, 65 - 69 and 70 or more. The projected labour force (displayed in Appendix C) was then derived from the projected labour force population (Appendix A) and the projected participation rates (Appendix B). The methodology used in projecting the sex and age specific participation rates is described in Appendix E.

The estimated participation rates for 1996 to 1998 have been used to ensure consistency in this report between the historical and projected data.

These projections are not forecasts, but project what would occur if historical trends continue and assumptions made hold true. As the process of change is cumulative, the reliability of these projections decreases over time.

MANITOBA LABOUR FORCE POPULATION BY SEX: 1976 TO 2021 HISTORICAL AND PROJECTED



MANITOBA BUREAU OF STATISTICS

JULY 1999

LABOUR FORCE POPULATION

Historically, labour force populations of both males and females have been increasing each year, and are expected to continue to grow along with the total population of Manitoba (Population x Adjustment = Labour Force Population), through the year 2021. The female labour force population is projected to increase 8.4%, from 440,000 in 1998 to 477,000 in 2021. The male labour force population is projected to increase 8.3%, from 423,000 to 458,000 and the total labour force population is projected to increase 8.3%, from 863,000 to 935,000 during the projection period.

Labour force populations of the 70 or more age group (for both sexes) are projected to increase continuously throughout the projection period, from 62,000 in 1998 to 76,000 in 2021 (22.6%) for females, and from 43,000 in 1998 to 58,000 in 2021 (34.9%) for males.

For females aged 65 to 69 years, the projected labour force population increases 54.5% from 22,000 in 1998 to 34,000 in 2021. The male labour force population increases 68.4% from the 1998 estimate of 19,000 to 32,000 in 2021.

Females in the 60 to 64 age group have an increase of 81.8% in labour force population, from 22,000 in 1998 to 40,000 in 2021. Males in this category have an increase of 85.7%, from 21,000 in 1998 to 39,000 in 2021. This age group has the greatest percentage increase in labour force population over the projection period.

An increase of 64% in labour force population is projected for females aged 55 to 59, from 25,000 in 1998 to 41,000 by the end of the projection period. The male labour force population is projected to increase 66.7% from 24,000 to 40,000 over the same time period.

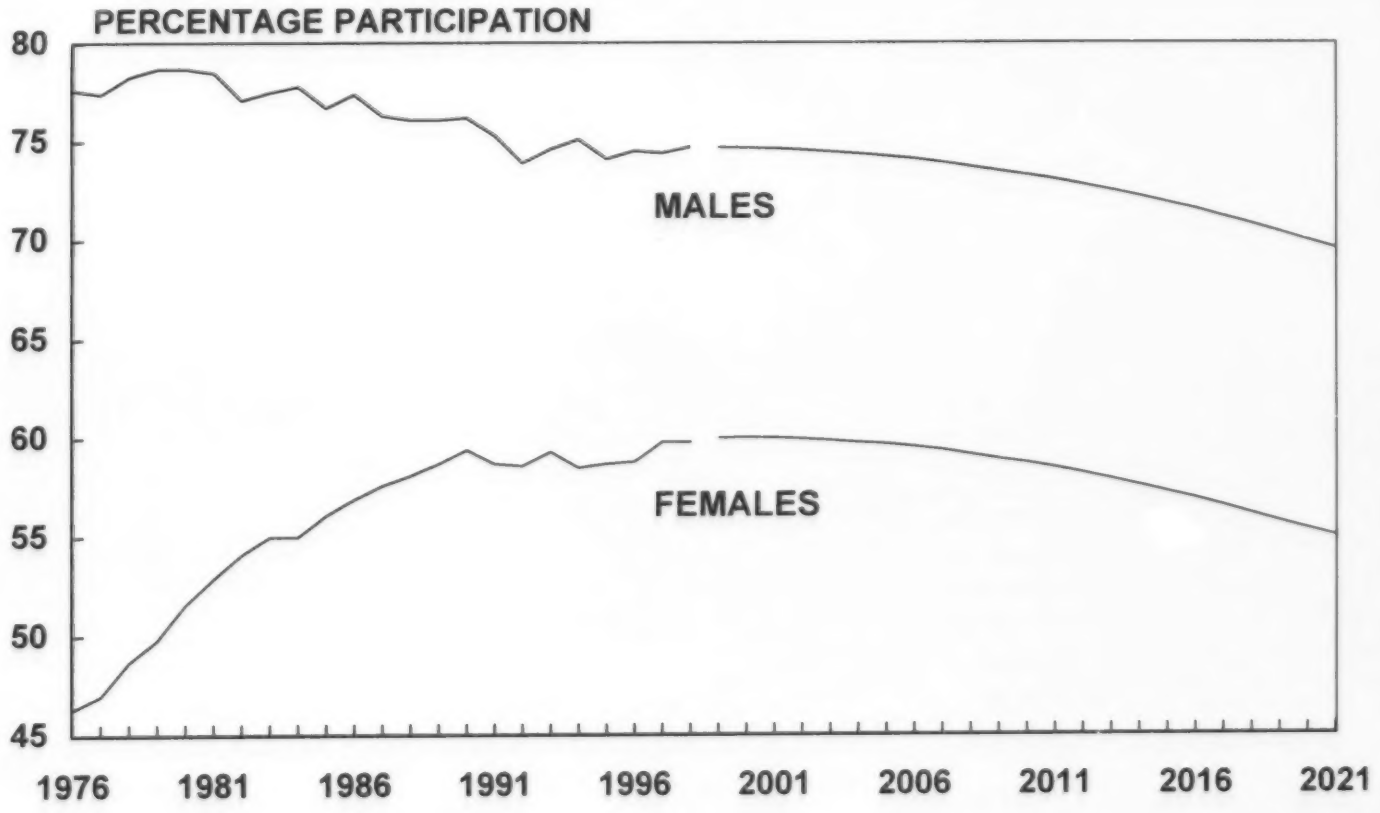
For females and males in the 45 to 54 age group, projected labour force populations increase to 2010 and then decrease to the end of the projection period. The female labour force population increases from 69,000 in 1998 to 84,000 in 2010 and then decreases to 70,000 by 2021 (an overall 1.4% increase). The male labour force population increases from 70,000 in 1998 to 85,000 in 2010 and then decreases to 71,000 by 2021 (an overall 1.4% increase).

The labour force populations for males and females aged 35 to 44 are projected to decrease throughout the projection period. The male labour force population is projected to decrease from 90,000 in 1998 to 73,000 in 2021 (18.9%). The female labour force population in this age group is projected to decrease from 88,000 in 1998 to 74,000 in 2021 (15.9%).

Females aged 15 to 19 have an overall decrease of 8.3% in labour force population, while males aged 15 to 19 have a decrease of 10.5% overall. Males aged 20 to 24 decrease 5.4% in labour force population, while females in this age class decrease 10.8% in labour force population.

Appendix A provides detailed tables of the projected labour force population of Manitoba for males, females and both sexes, by age group.

MANITOBA PARTICIPATION RATES BY SEX: 1976 TO 2021 HISTORICAL AND PROJECTED



MANITOBA BUREAU OF STATISTICS

JULY 1999

PARTICIPATION RATES

The overall participation rate for Manitoba, estimated at 67.1% for 1998, is projected to decrease to 62.1% by 2021. Over the projection period, the female rate is projected to decrease 4.8 points, from 59.8% to 55.0%, and the male rate is projected to decrease 5.1 points, from 74.7% to 69.6%. In all age groups, the both sexes participation rate is projected to remain constant or increase marginally from 1998 to 2021.

The annual average participation rate trends for most age groups have stabilized over the last several years, so for most of the sex and age groups, average participation rates were calculated over the time period 1991 to 1998, and these were used as the projected rates. Appendix E provides a detailed explanation of the methods used to project the participation rates for all the age and sex groups.

In the 15 to 19 age group, the projected female participation rate is an average of 56.5%, 1.7 points higher than the 1998 estimated rate of 54.8%. The corresponding male projected rate is 59.2%, 0.6 points higher than the 1998 estimate of 58.6%. This age group has the smallest difference between participation rates with 95.4 females participating for every 100 males.

The 20 to 24 age group sees the female participation rate remaining constant at 77.6%, while the male participation rate is 85.6% through the entire projection period.

Females aged 25 to 29 and 30 to 34 are projected to have a constant participation rate of 80.5%, while males in the corresponding age groups have constant participation rates of 92.2% and 94.1% respectively.

Males aged 35 to 44 are projected to have a constant participation rate of 94.4%, while the female participation rate is projected to increase slowly and reach 84.0% by 2021.

The 45 to 54 age group sees the male participation rate remaining constant at 92.1%, while female participation rates increase slowly and reach 80.9% by 2021.

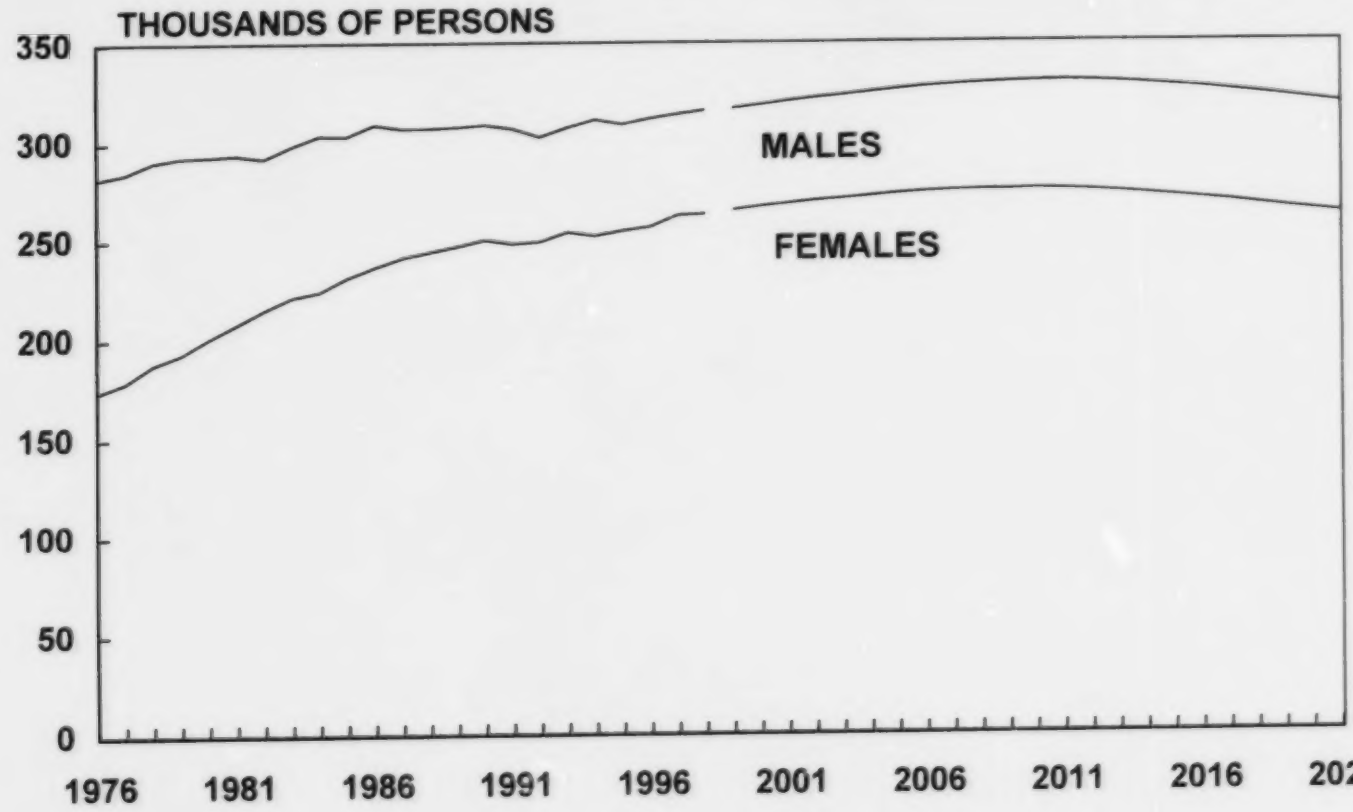
In the 55 to 59 age group, the female participation rate is a constant 53.7%, while the corresponding male participation rate is a steady 77.8%.

Members of the 60 to 64 age group, both males and females, are projected to have stable participation rates of 52.3% and 28.3% respectively.

The participation rate for females aged 70 or more is projected to be constant at 1.9%, while the rate for males in this age category is a steady 8.2%. This age group has the largest difference between participation rates for males and females, with 23.2 females participating for every 100 males.

Appendix B provides tables featuring projected participation rates for Manitoba by sex and age group, and projected female rates as a percentage of male rates. Appendix D presents this information graphically.

MANITOBA LABOUR FORCE BY SEX: 1976 TO 2021 HISTORICAL AND PROJECTED



MANITOBA BUREAU OF STATISTICS

JULY 1999

LABOUR FORCE

The male and female labour forces are expected to continue growing to the year 2011 and then decrease to the year 2021. The female labour force is projected to decrease 0.4% overall (from 263,000 in 1998 to 262,000 in 2021). The male labour force is projected to increase 0.9% overall (from 316,000 in 1998 to 319,000 in 2021).

The total projected labour force for the 15 to 19 age group increases from 42,000 in 1998 to 46,000 in 2008. It then decreases to 39,000 by 2021 for an overall decrease of 7.1%.

The labour force for males aged 20 to 24 is projected to increase from 32,000 to 34,000 between 1998 and 2015. It is then projected to decrease to 30,000 by 2021. Females in this age group are projected to have an increase in labour force from 29,000 to 30,000 over the period 1998 to 2015 and then decrease to 26,000 by 2021.

The labour force for 25 to 29 year olds (both sexes) is projected to increase from 65,000 in 1998 to a maximum of 68,000 in 2019 before decreasing to 66,000 by 2021 (an increase of 1.5% overall).

In the 30 to 34 age category, the total labour force is projected to decrease from the 1998 estimate of 72,000 to a projected 64,000 in 2011 before increasing to 68,000 by the end of the projection period.

Males in the 35 to 44 age group are projected to have a decrease in labour force from an estimated 85,000 in 1998 to a projected 69,000 in 2021. The female labour force in this age category is projected to decrease 15.1% from 73,000 in 1998 to 62,000 in 2021.

The labour force for females aged 45 to 54 is projected to increase from an estimated 55,000 in 1998 to a projected 68,000 in 2010 before decreasing to 56,000 over the next eleven years. The male labour force for this group is projected to behave similarly, increasing from 65,000 in 1998 to 78,000 in 2010, followed by a decrease to 65,000 by 2021.

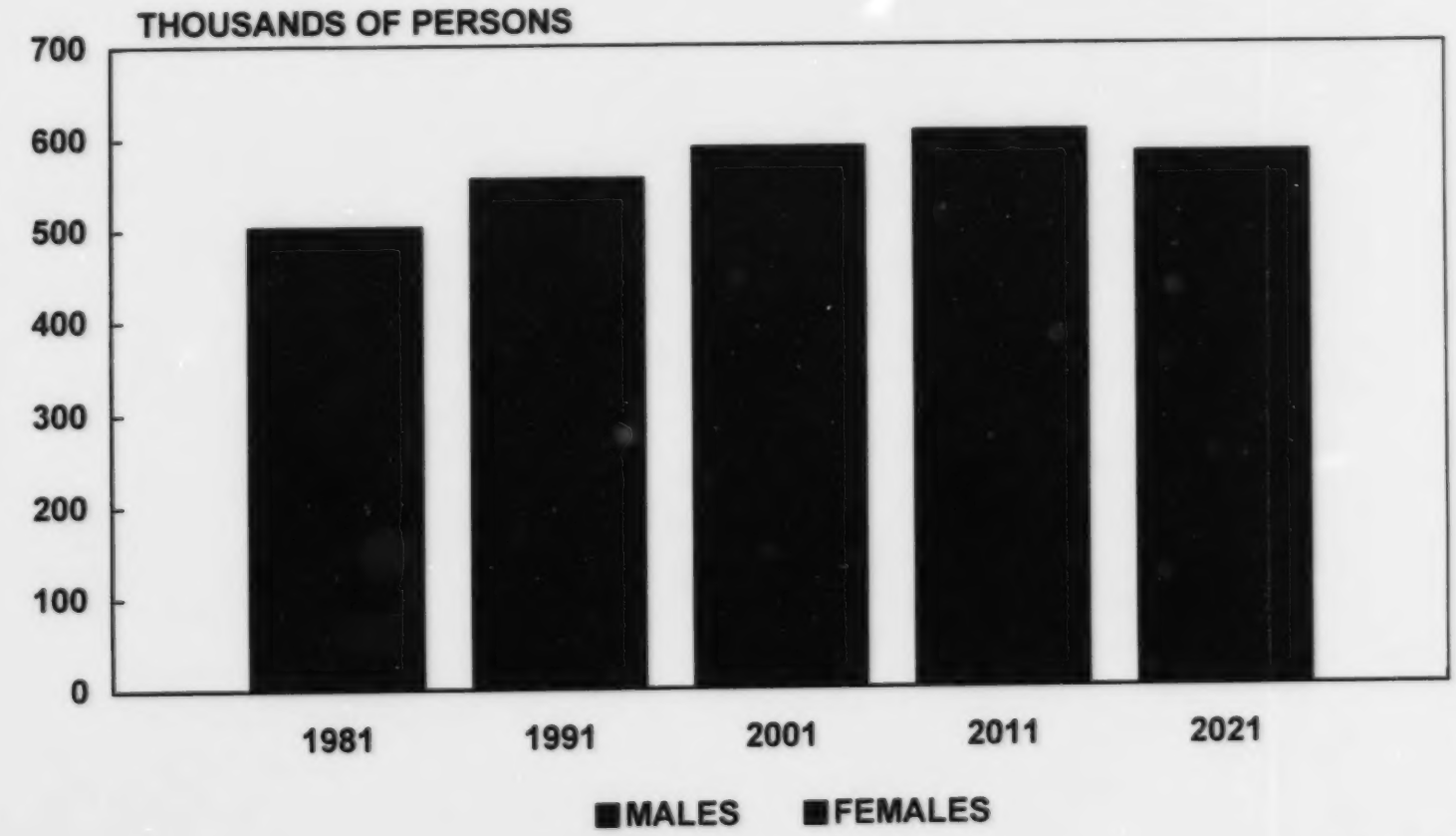
The total labour force for persons in the 55 to 59 age class is projected to increase steadily over the projection period, from 34,000 in 1998 to 53,000 in 2021, an overall increase of 55.9%.

Persons in the 60 to 64 age group are projected to have a total labour force increase of 88.2%, from an estimated 17,000 in 1998 to a projected 32,000 in 2021.

The labour force projections highlight great changes in the age group composition of Manitoba's labour force. In 1998, the 35 to 44 age group was the largest, followed by the 45 to 54 and 30 to 34 age groups. However, between 2007 and 2018, the 45 to 54 age group is projected to be the largest, followed by the 35 to 44 age group, and the 25 to 29 age group. The 55 to 59 age group is projected to surpass the 15 to 19 age group, currently sixth largest, by 2021.

Appendix C provides a series of detailed tables and charts of the projected labour force of Manitoba, by age group and sex, through 2021.

MANITOBA LABOUR FORCE
BY SEX: 1981 TO 2021
HISTORICAL AND PROJECTED



MANITOBA BUREAU OF STATISTICS

JULY 1999

Table A1. Manitoba Labour Force Population by Age Group: 1996 to 2021 **Females**

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Population in Thousands)										
1996	37	37	38	44	86	65	24	22	22	60	436
1997	37	37	38	43	88	67	24	22	22	63	439
1998	36	37	38	41	88	69	25	22	22	62	440
1999	37	37	37	39	89	72	26	22	20	63	442
2000	37	37	37	38	89	75	27	23	20	63	444
2001	38	37	37	37	88	76	28	23	19	63	447
2002	38	37	37	37	87	78	30	24	19	64	450
2003	38	37	37	37	85	79	32	25	19	64	452
2004	38	37	37	37	83	80	33	25	20	64	455
2005	38	38	37	37	82	81	35	26	20	63	457
2006	38	38	37	37	80	82	36	27	20	63	460
2007	39	38	37	37	79	83	36	29	21	63	462
2008	39	38	37	37	77	84	37	31	22	63	464
2009	38	38	37	37	75	84	38	32	22	63	466
2010	38	39	38	37	74	84	39	34	23	63	468
2011	37	39	38	37	74	84	39	35	24	63	470
2012	36	39	38	37	73	82	40	35	26	64	471
2013	36	39	39	37	74	81	40	36	27	64	472
2014	35	39	39	37	73	79	41	37	29	65	473
2015	34	38	39	38	73	78	41	37	30	65	474
2016	33	38	39	38	73	76	42	38	31	67	474
2017	33	37	39	38	73	75	42	39	31	68	475
2018	33	36	39	38	73	73	42	39	32	70	476
2019	32	35	39	39	74	71	42	39	32	72	476
2020	32	34	38	39	74	70	42	40	33	74	477
2021	33	33	38	39	74	70	41	40	34	76	477

Manitoba Bureau of Statistics **July 1999**

Table A2. Manitoba Labour Force Population by Age Group: 1996 to 2021 **Males**

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Population in Thousands)										
1996	37	39	39	45	87	66	23	21	19	42	419
1997	37	38	39	43	89	68	24	21	20	43	422
1998	38	37	38	41	90	70	24	21	19	43	423
1999	39	38	39	40	89	71	25	21	19	43	424
2000	39	38	39	39	89	73	26	21	19	44	427
2001	39	38	39	39	88	75	27	22	19	44	429
2002	39	38	38	39	87	76	29	22	19	44	432
2003	39	38	38	39	86	77	31	23	19	45	434
2004	39	38	38	39	85	79	32	24	19	45	437
2005	40	39	37	38	83	80	33	25	19	45	440
2006	40	39	37	38	81	82	34	26	19	45	442
2007	40	39	37	38	80	83	35	28	20	45	444
2008	40	39	37	37	78	84	35	29	21	45	447
2009	40	39	38	37	77	85	36	31	21	45	449
2010	40	40	38	37	76	85	37	32	22	46	451
2011	39	40	38	37	75	84	38	33	23	46	452
2012	38	40	38	37	75	83	39	33	25	46	454
2013	37	40	38	37	74	81	39	33	26	47	455
2014	36	40	38	37	74	80	40	34	27	48	455
2015	35	40	39	38	74	79	40	35	28	49	456
2016	35	39	39	38	73	77	41	36	29	50	457
2017	34	38	39	38	73	75	41	37	29	51	457
2018	34	37	39	38	73	74	42	37	30	53	457
2019	34	36	39	38	73	72	42	38	30	55	458
2020	34	35	39	38	73	71	41	38	31	56	458
2021	34	35	38	39	73	71	40	39	32	58	458

Manitoba Bureau of Statistics **July 1999**

Table A3. Manitoba Labour Force Population by Age Group: 1996 to 2021 **Both Sexes**

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Population in Thousands)										
1996	74	76	77	89	173	131	47	43	42	102	855
1997	74	75	77	86	176	136	48	43	41	106	861
1998	74	74	76	82	178	140	49	42	41	105	863
1999	76	75	76	78	178	143	51	43	39	106	866
2000	76	75	76	77	178	148	53	44	38	107	871
2001	77	75	75	76	176	152	55	45	38	107	876
2002	77	75	75	76	174	154	59	46	38	108	881
2003	77	75	74	76	171	156	63	48	38	108	886
2004	77	76	74	76	168	158	65	49	39	108	891
2005	78	76	74	76	165	161	68	51	39	108	897
2006	78	77	74	75	162	164	70	53	40	108	902
2007	79	77	74	74	159	166	71	57	41	108	907
2008	79	77	75	74	155	168	72	60	42	108	911
2009	78	78	75	74	152	169	74	63	44	109	915
2010	78	78	76	74	150	169	75	66	45	109	919
2011	77	79	76	73	149	167	77	68	47	109	923
2012	75	79	77	74	148	165	79	68	51	110	925
2013	73	79	77	74	148	162	80	69	53	111	927
2014	71	79	77	75	147	159	80	71	56	113	928
2015	69	78	78	75	147	156	81	73	58	114	930
2016	68	77	78	76	146	153	83	74	60	116	931
2017	67	75	78	76	146	150	83	75	61	120	932
2018	67	73	78	76	146	147	84	77	61	123	933
2019	67	71	78	77	146	144	84	77	63	127	934
2020	67	69	77	77	147	142	83	78	64	130	935
2021	67	68	76	78	147	141	80	79	66	134	935

Manitoba Bureau of Statistics **July 1999**

Table B1. Manitoba Participation Rates by Age Group: 1996 to 2021

Females

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Percentage Participation)										
1996	55.7	76.6	78.8	78.3	82.6	79.3	52.1	24.1	7.7	1.0	58.8
1997	58.2	77.0	80.1	78.3	82.9	79.0	53.7	29.2	9.6	1.9	59.8
1998	54.8	78.7	79.0	80.8	82.4	79.6	58.2	26.5	9.3	2.1	59.8
1999	55.4	78.3	79.5	80.5	83.2	79.4	56.7	27.1	9.0	1.9	60.0
2000	55.9	77.9	80.0	80.5	83.3	79.6	55.2	27.7	8.7	1.9	60.0
2001	56.5	77.6	80.5	80.5	83.4	79.8	53.7	28.3	8.4	1.9	60.0
2002	56.5	77.6	80.5	80.5	83.5	80.0	53.7	28.3	8.4	1.9	60.0
2003	56.5	77.6	80.5	80.5	83.6	80.1	53.7	28.3	8.4	1.9	59.9
2004	56.5	77.6	80.5	80.5	83.6	80.2	53.7	28.3	8.4	1.9	59.8
2005	56.5	77.6	80.5	80.5	83.7	80.3	53.7	28.3	8.4	1.9	59.7
2006	56.5	77.6	80.5	80.5	83.7	80.4	53.7	28.3	8.4	1.9	59.6
2007	56.5	77.6	80.5	80.5	83.8	80.5	53.7	28.3	8.4	1.9	59.4
2008	56.5	77.6	80.5	80.5	83.8	80.6	53.7	28.3	8.4	1.9	59.2
2009	56.5	77.6	80.5	80.5	83.8	80.6	53.7	28.3	8.4	1.9	58.9
2010	56.5	77.6	80.5	80.5	83.9	80.7	53.7	28.3	8.4	1.9	58.7
2011	56.5	77.6	80.5	80.5	83.9	80.7	53.7	28.3	8.4	1.9	58.5
2012	56.5	77.6	80.5	80.5	83.9	80.7	53.7	28.3	8.4	1.9	58.2
2013	56.5	77.6	80.5	80.5	83.9	80.8	53.7	28.3	8.4	1.9	57.9
2014	56.5	77.6	80.5	80.5	83.9	80.8	53.7	28.3	8.4	1.9	57.6
2015	56.5	77.6	80.5	80.5	83.9	80.8	53.7	28.3	8.4	1.9	57.3
2016	56.5	77.6	80.5	80.5	83.9	80.9	53.7	28.3	8.4	1.9	56.9
2017	56.5	77.6	80.5	80.5	84.0	80.9	53.7	28.3	8.4	1.9	56.6
2018	56.5	77.6	80.5	80.5	84.0	80.9	53.7	28.3	8.4	1.9	56.1
2019	56.5	77.6	80.5	80.5	84.0	80.9	53.7	28.3	8.4	1.9	55.8
2020	56.5	77.6	80.5	80.5	84.0	80.9	53.7	28.3	8.4	1.9	55.4
2021	56.5	77.6	80.5	80.5	84.0	80.9	53.7	28.3	8.4	1.9	55.0

Manitoba Bureau of Statistics

July 1999

Table B2. Manitoba Participation Rates by Age Group: 1996 to 2021 **Males**

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Percentage Participation)										
1996	58.8	85.7	92.8	94.7	94.5	91.2	77.3	49.3	19.0	9.5	74.5
1997	58.4	85.9	92.8	94.7	94.7	92.5	72.5	48.3	20.9	7.7	74.4
1998	58.6	85.9	92.7	93.7	94.7	92.3	77.8	51.7	23.1	7.4	74.7
1999	59.2	85.6	92.2	94.1	94.4	92.1	77.8	51.9	22.8	7.7	74.7
2000	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.1	22.4	7.9	74.7
2001	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	74.6
2002	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	74.6
2003	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	74.5
2004	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	74.4
2005	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	74.2
2006	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	74.1
2007	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	73.9
2008	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	73.7
2009	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	73.5
2010	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	73.3
2011	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	73.1
2012	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	72.8
2013	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	72.5
2014	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	72.2
2015	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	71.9
2016	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	71.6
2017	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	71.2
2018	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	70.8
2019	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	70.4
2020	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	70.0
2021	59.2	85.6	92.2	94.1	94.4	92.1	77.8	52.3	22.1	8.2	69.6

Manitoba Bureau of Statistics **July 1999**

Table B3. Manitoba Participation Rates by Age Group: 1996 to 2021 **Both Sexes**

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Percentage Participation)										
1996	57.3	81.3	85.8	86.6	88.6	85.3	64.5	36.5	13.0	4.5	66.5
1997	58.3	81.5	86.5	86.5	88.8	85.8	63.0	38.6	14.9	4.2	66.9
1998	56.7	82.3	85.9	87.3	88.6	86.0	67.8	38.9	15.9	4.3	67.1
1999	57.3	82.0	86.0	87.4	88.8	85.7	67.1	39.2	15.7	4.3	67.2
2000	57.6	81.8	86.2	87.4	88.9	85.8	66.4	39.6	15.4	4.3	67.2
2001	57.9	81.7	86.5	87.4	88.9	85.9	65.6	39.9	15.1	4.5	67.2
2002	57.9	81.7	86.5	87.4	89.0	86.0	65.6	39.9	15.1	4.5	67.1
2003	57.9	81.7	86.4	87.4	89.0	86.1	65.6	39.9	15.1	4.5	67.0
2004	57.9	81.7	86.4	87.4	89.0	86.1	65.5	40.0	15.1	4.5	66.9
2005	57.9	81.6	86.4	87.4	89.1	86.2	65.5	40.0	15.1	4.5	66.8
2006	57.9	81.6	86.4	87.4	89.1	86.2	65.5	40.0	15.0	4.5	66.7
2007	57.9	81.6	86.4	87.4	89.1	86.3	65.5	40.0	15.0	4.5	66.5
2008	57.9	81.6	86.4	87.4	89.1	86.3	65.5	40.0	15.0	4.5	66.3
2009	57.9	81.6	86.4	87.3	89.1	86.4	65.5	39.9	15.1	4.5	66.1
2010	57.9	81.6	86.4	87.3	89.2	86.4	65.5	39.9	15.1	4.5	65.9
2011	57.9	81.6	86.3	87.3	89.2	86.4	65.5	39.9	15.1	4.5	65.6
2012	57.9	81.6	86.3	87.3	89.2	86.4	65.5	39.9	15.1	4.6	65.4
2013	57.9	81.7	86.3	87.3	89.2	86.5	65.6	39.9	15.1	4.6	65.1
2014	57.9	81.7	86.3	87.3	89.2	86.5	65.6	39.9	15.0	4.6	64.8
2015	57.9	81.7	86.4	87.3	89.2	86.5	65.6	39.9	15.0	4.6	64.4
2016	57.9	81.7	86.4	87.3	89.2	86.5	65.6	39.9	15.0	4.6	64.1
2017	57.9	81.7	86.3	87.3	89.2	86.5	65.6	40.0	15.0	4.6	63.7
2018	57.9	81.7	86.4	87.2	89.2	86.5	65.7	40.0	15.0	4.6	63.3
2019	57.9	81.7	86.4	87.3	89.2	86.5	65.7	40.0	15.0	4.6	62.9
2020	57.9	81.7	86.4	87.3	89.2	86.5	65.6	40.0	15.0	4.6	62.5
2021	57.9	81.7	86.4	87.3	89.1	86.6	65.6	40.1	15.1	4.6	62.1

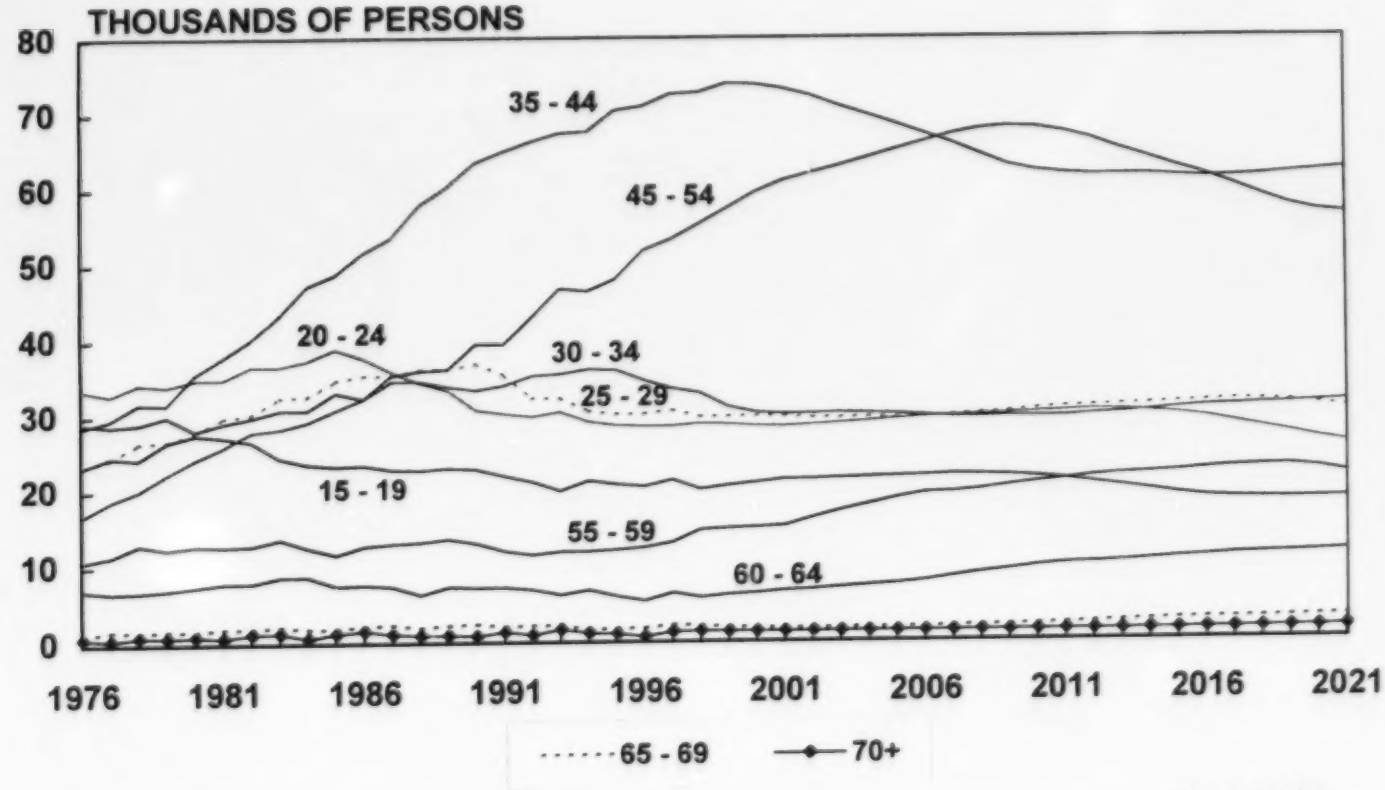
Manitoba Bureau of Statistics **July 1999**

Table B4. Manitoba Female Participation Rates as a Percentage of Male Rates: 1996 to 2021

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
						(Percent)					
1996	94.7	89.4	84.9	82.7	87.4	87.0	67.4	48.9	40.5	10.5	78.9
1997	99.7	89.6	86.3	82.7	87.5	85.4	74.1	60.5	45.9	24.7	80.4
1998	93.5	91.6	85.2	86.2	87.0	86.2	74.8	51.3	40.3	28.4	80.1
1999	93.6	91.5	86.2	85.5	88.1	86.2	72.9	52.2	39.5	24.7	80.3
2000	94.4	91.0	86.8	85.5	88.2	86.4	71.0	53.2	38.8	24.1	80.4
2001	95.4	90.7	87.3	85.5	88.3	86.6	69.0	54.2	38.1	23.2	80.4
2002	95.4	90.7	87.3	85.5	88.5	86.9	69.0	54.2	38.1	23.2	80.4
2003	95.4	90.7	87.3	85.5	88.6	87.0	69.0	54.2	38.1	23.2	80.4
2004	95.4	90.7	87.3	85.5	88.6	87.1	69.0	54.2	38.1	23.2	80.4
2005	95.4	90.7	87.3	85.5	88.7	87.2	69.0	54.2	38.1	23.2	80.4
2006	95.4	90.7	87.3	85.5	88.7	87.3	69.0	54.2	38.1	23.2	80.4
2007	95.4	90.7	87.3	85.5	88.8	87.4	69.0	54.2	38.1	23.2	80.3
2008	95.4	90.7	87.3	85.5	88.8	87.5	69.0	54.2	38.1	23.2	80.3
2009	95.4	90.7	87.3	85.5	88.8	87.5	69.0	54.2	38.1	23.2	80.2
2010	95.4	90.7	87.3	85.5	88.9	87.6	69.0	54.2	38.1	23.2	80.2
2011	95.4	90.7	87.3	85.5	88.9	87.6	69.0	54.2	38.1	23.2	80.1
2012	95.4	90.7	87.3	85.5	88.9	87.6	69.0	54.2	38.1	23.2	80.0
2013	95.4	90.7	87.3	85.5	88.9	87.7	69.0	54.2	38.1	23.2	79.9
2014	95.4	90.7	87.3	85.5	88.9	87.7	69.0	54.2	38.1	23.2	79.8
2015	95.4	90.7	87.3	85.5	88.9	87.7	69.0	54.2	38.1	23.2	79.7
2016	95.4	90.7	87.3	85.5	88.9	87.8	69.0	54.2	38.1	23.2	79.5
2017	95.4	90.7	87.3	85.5	89.0	87.8	69.0	54.2	38.1	23.2	79.5
2018	95.4	90.7	87.3	85.5	89.0	87.8	69.0	54.2	38.1	23.2	79.3
2019	95.4	90.7	87.3	85.5	89.0	87.8	69.0	54.2	38.1	23.2	79.2
2020	95.4	90.7	87.3	85.5	89.0	87.8	69.0	54.2	38.1	23.2	79.1
2021	95.4	90.7	87.3	85.5	89.0	87.8	69.0	54.2	38.1	23.2	79.1

Manitoba Bureau of Statistics **July 1999**

MANITOBA FEMALE LABOUR FORCE BY AGE GROUP: 1976 TO 2021 HISTORICAL AND PROJECTED



JULY 1999

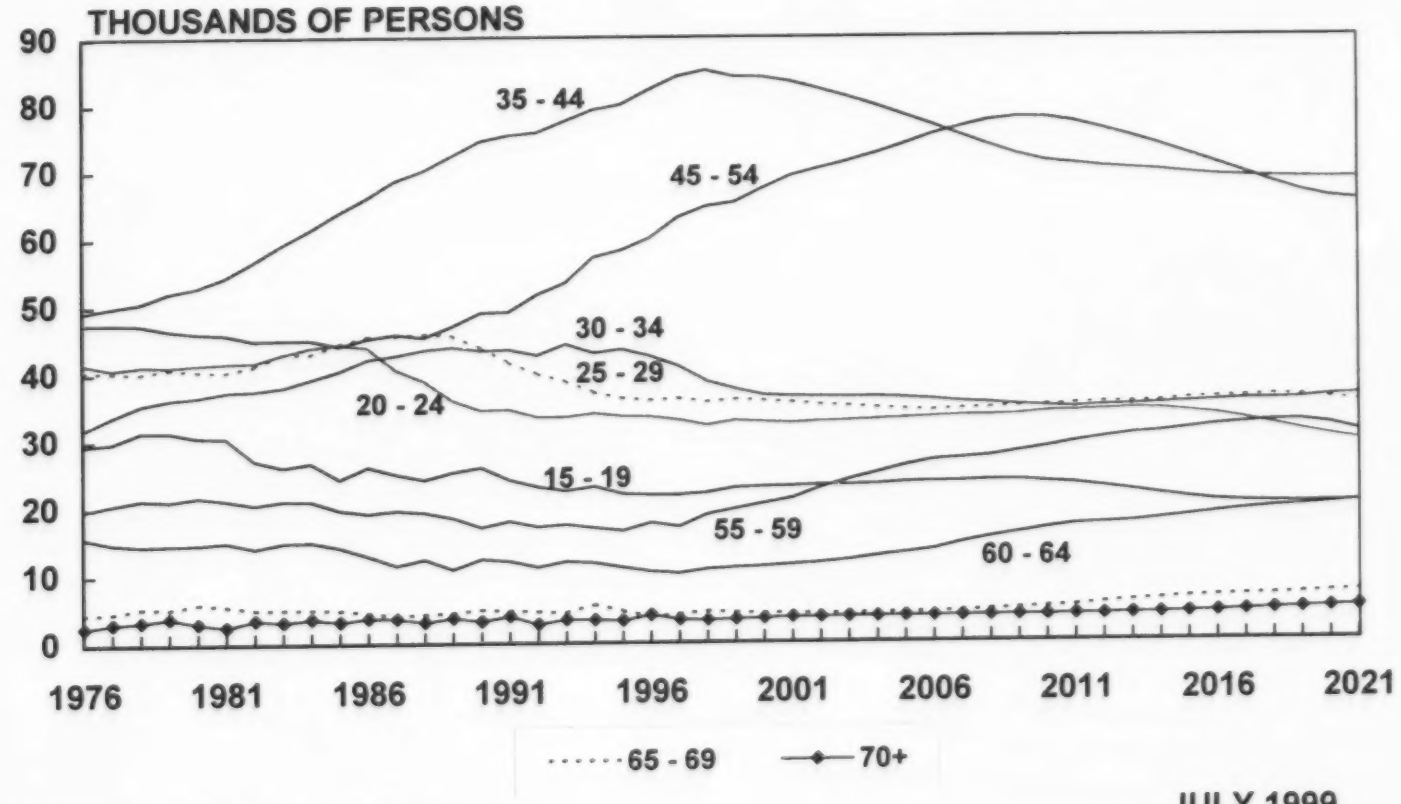
MANITOBA BUREAU OF STATISTICS

Table C1. Manitoba Labour Force by Age Group: 1996 to 2021 **Females**

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Labour Force in Thousands)										
1996	20	29	30	35	71	52	12	5	2	1	256
1997	21	29	31	34	73	53	13	6	2	1	262
1998	20	29	30	33	73	55	15	6	2	1	263
1999	20	29	30	31	74	57	15	6	2	1	265
2000	21	28	30	30	74	59	15	6	2	1	267
2001	21	28	30	30	73	61	15	7	2	1	268
2002	21	29	30	30	72	62	16	7	2	1	270
2003	21	29	29	30	71	63	17	7	2	1	271
2004	21	29	30	30	70	64	18	7	2	1	272
2005	22	29	29	30	69	65	19	7	2	1	273
2006	22	30	30	30	67	66	19	8	2	1	274
2007	22	30	30	30	66	67	19	8	2	1	275
2008	22	30	30	29	64	68	20	9	2	1	275
2009	22	30	30	30	63	68	20	9	2	1	275
2010	21	30	30	29	62	68	21	10	2	1	275
2011	21	30	31	30	62	67	21	10	2	1	275
2012	21	30	31	30	62	66	21	10	2	1	274
2013	20	30	31	30	62	65	22	10	2	1	273
2014	20	30	31	30	62	64	22	10	2	1	272
2015	19	30	31	30	61	63	22	11	3	1	271
2016	19	29	31	31	61	62	22	11	3	1	270
2017	18	29	32	31	61	60	23	11	3	1	269
2018	18	28	32	31	62	59	23	11	3	1	267
2019	18	27	31	31	62	58	23	11	3	1	265
2020	18	26	31	31	62	57	22	11	3	1	264
2021	18	26	31	31	62	56	22	11	3	1	262

Manitoba Bureau of Statistics **July 1999**

MANITOBA MALE LABOUR FORCE BY AGE GROUP: 1976 TO 2021 HISTORICAL AND PROJECTED



JULY 1999

MANITOBA BUREAU OF STATISTICS

Table C2. Manitoba Labour Force by Age Group: 1996 to 2021 **Males**

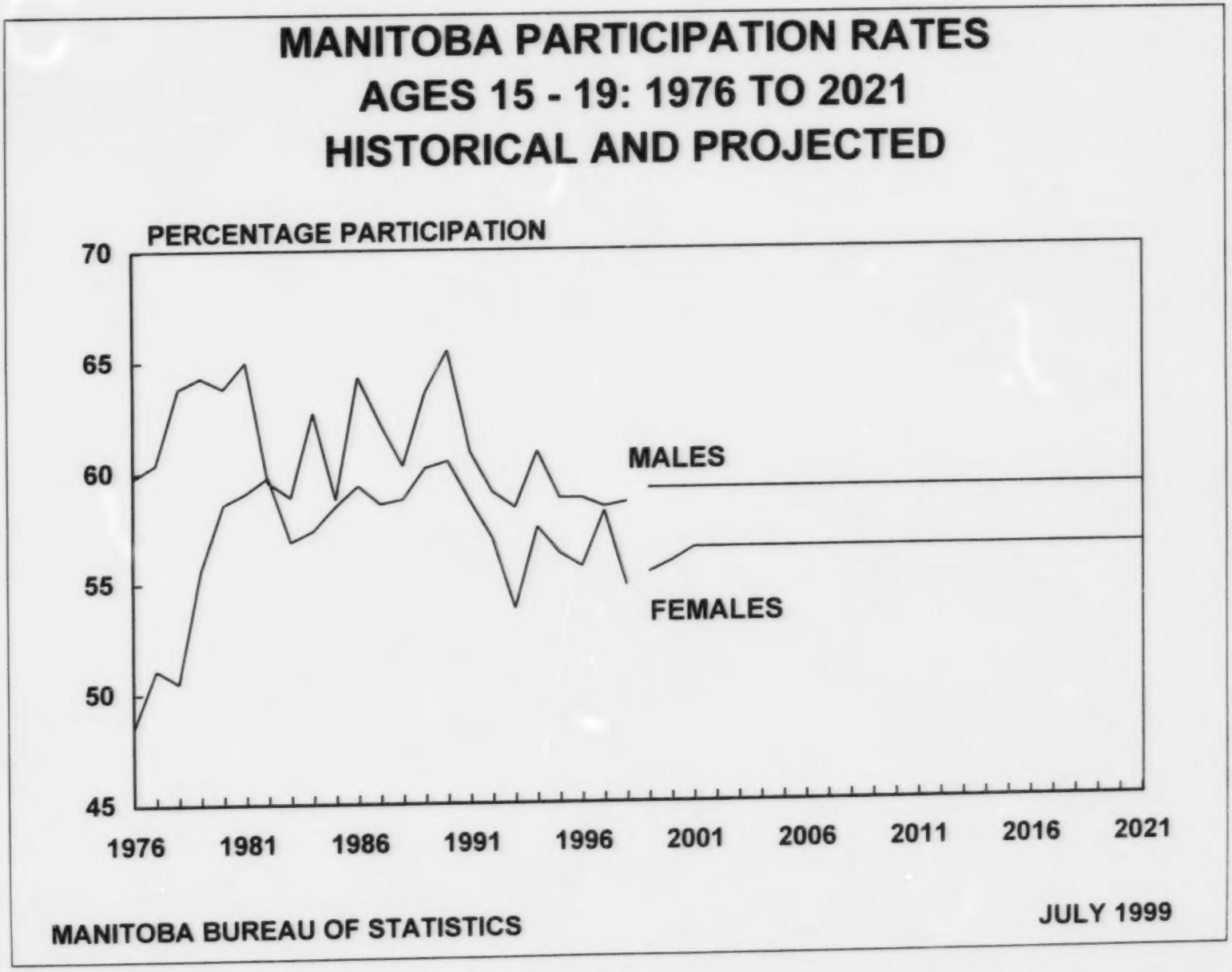
Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Labour Force in Thousands)										
1996	22	34	36	43	82	60	18	11	4	4	312
1997	22	33	36	41	84	63	17	10	4	3	314
1998	22	32	36	39	85	65	19	11	5	3	316
1999	23	33	36	38	84	65	20	11	4	3	317
2000	23	33	36	37	84	67	20	11	4	3	319
2001	23	32	36	36	83	69	21	11	4	4	320
2002	23	33	35	36	82	70	23	12	4	4	322
2003	23	33	35	36	81	71	24	12	4	4	323
2004	23	33	35	36	80	72	25	13	4	4	325
2005	24	33	34	36	78	74	26	13	4	4	326
2006	24	33	34	36	77	75	27	14	4	4	328
2007	24	33	34	35	75	76	27	15	4	4	329
2008	24	33	35	35	74	77	27	15	5	4	329
2009	24	34	35	35	72	78	28	16	5	4	330
2010	23	34	35	35	71	78	29	17	5	4	330
2011	23	34	35	35	71	77	29	17	5	4	331
2012	23	34	35	35	70	76	30	17	5	4	330
2013	22	34	35	35	70	75	31	17	6	4	330
2014	22	34	35	35	70	74	31	18	6	4	329
2015	21	34	36	35	69	72	31	18	6	4	328
2016	21	33	36	35	69	71	32	19	6	4	327
2017	20	33	36	36	69	70	32	19	6	4	325
2018	20	32	36	36	69	68	32	20	7	4	324
2019	20	31	36	36	69	67	32	20	7	4	322
2020	20	30	36	36	69	66	32	20	7	5	320
2021	20	30	35	36	69	65	31	20	7	5	319

Manitoba Bureau of Statistics **July 1999**

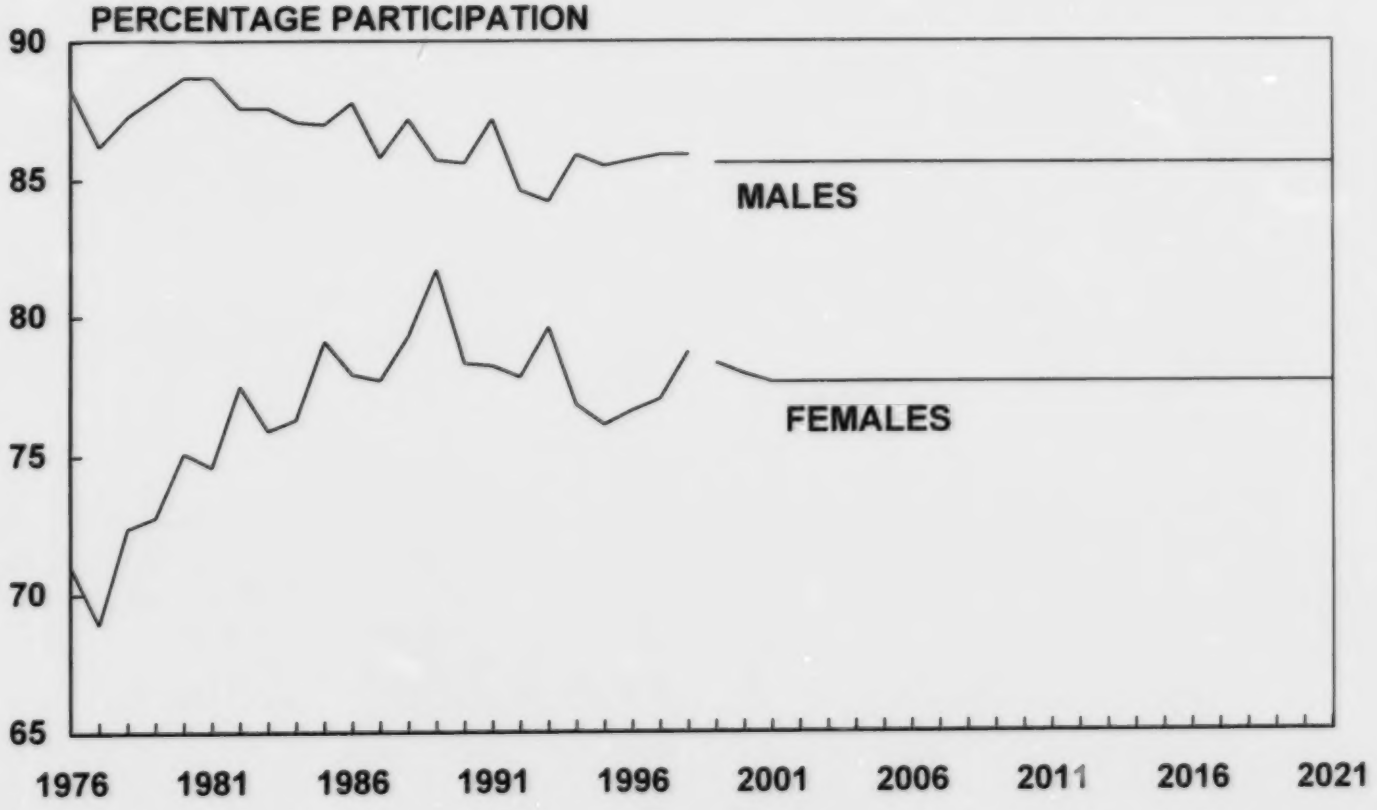
Table C3. Manitoba Labour Force by Age Group: 1996 to 2021 **Both Sexes**

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Labour Force in Thousands)										
1996	42	62	66	77	153	112	30	16	5	5	568
1997	43	62	67	75	157	116	30	17	6	5	576
1998	42	61	65	72	158	120	34	17	7	5	579
1999	43	62	66	69	158	123	34	17	6	5	582
2000	44	61	66	67	158	127	35	17	6	5	585
2001	44	61	65	66	157	130	36	18	6	5	589
2002	44	61	65	66	155	132	39	18	6	5	592
2003	45	62	64	66	152	134	41	19	6	5	594
2004	45	62	64	66	150	136	43	20	6	5	597
2005	45	62	64	66	147	139	45	21	6	5	599
2006	45	63	64	66	144	141	46	21	6	5	601
2007	46	63	64	65	141	144	47	23	6	5	603
2008	46	63	64	65	138	145	47	24	6	5	604
2009	45	63	65	65	135	146	48	25	7	5	605
2010	45	64	65	64	134	146	49	26	7	5	605
2011	44	64	66	64	133	145	51	27	7	5	606
2012	43	65	66	65	132	143	52	27	8	5	605
2013	42	65	66	65	132	140	52	28	8	5	603
2014	41	64	67	65	132	138	53	28	8	5	601
2015	40	64	67	66	131	135	53	29	9	5	599
2016	39	63	67	66	130	133	54	30	9	5	597
2017	39	61	68	66	130	130	55	30	9	6	594
2018	39	60	68	67	130	127	55	31	9	6	591
2019	39	58	68	67	131	124	55	31	9	6	588
2020	39	57	67	67	131	123	54	31	10	6	584
2021	39	55	66	68	131	122	53	32	10	6	581

Manitoba Bureau of Statistics **July 1999**

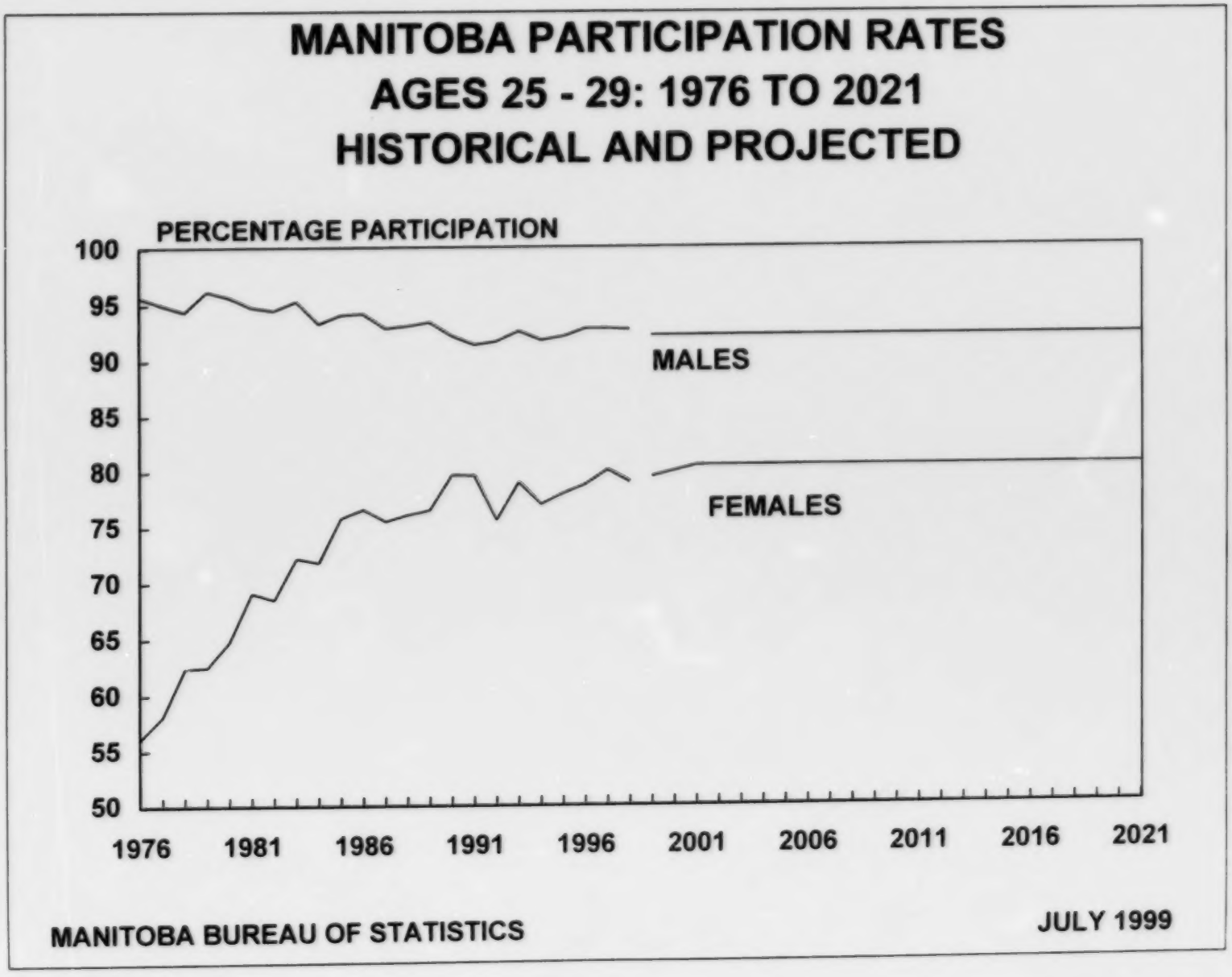

MANITOBA PARTICIPATION RATES
AGES 15 - 19: 1976 TO 2021
HISTORICAL AND PROJECTED
PERCENTAGE PARTICIPATION
70
65
60
55
50
45
MALES
FEMALES
1976
1981
1986
1991
1996
2001
2006
2011
2016
2021
MANITOBA BUREAU OF STATISTICS
JULY 1999

MANITOBA PARTICIPATION RATES
AGES 20 - 24: 1976 TO 2021
HISTORICAL AND PROJECTED

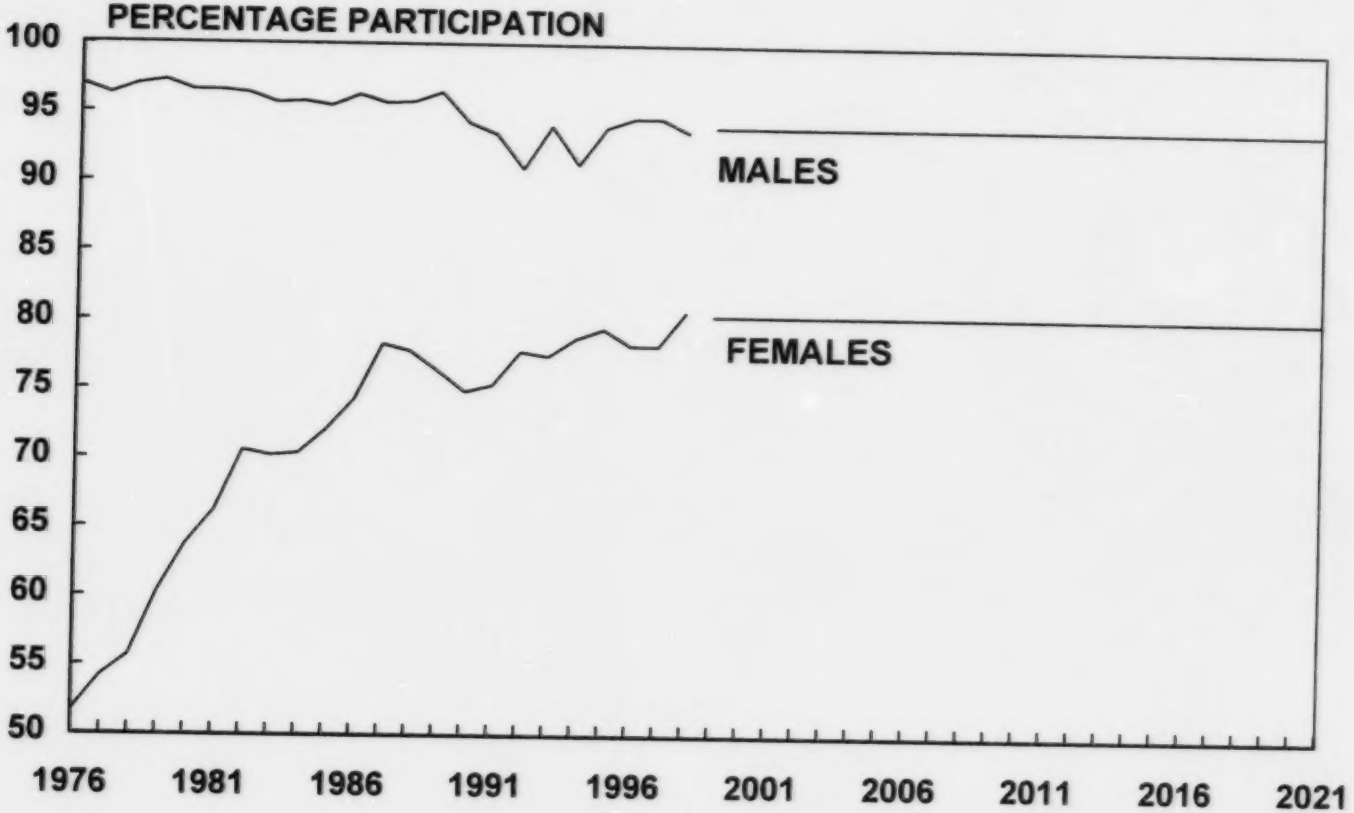


MANITOBA BUREAU OF STATISTICS

JULY 1999

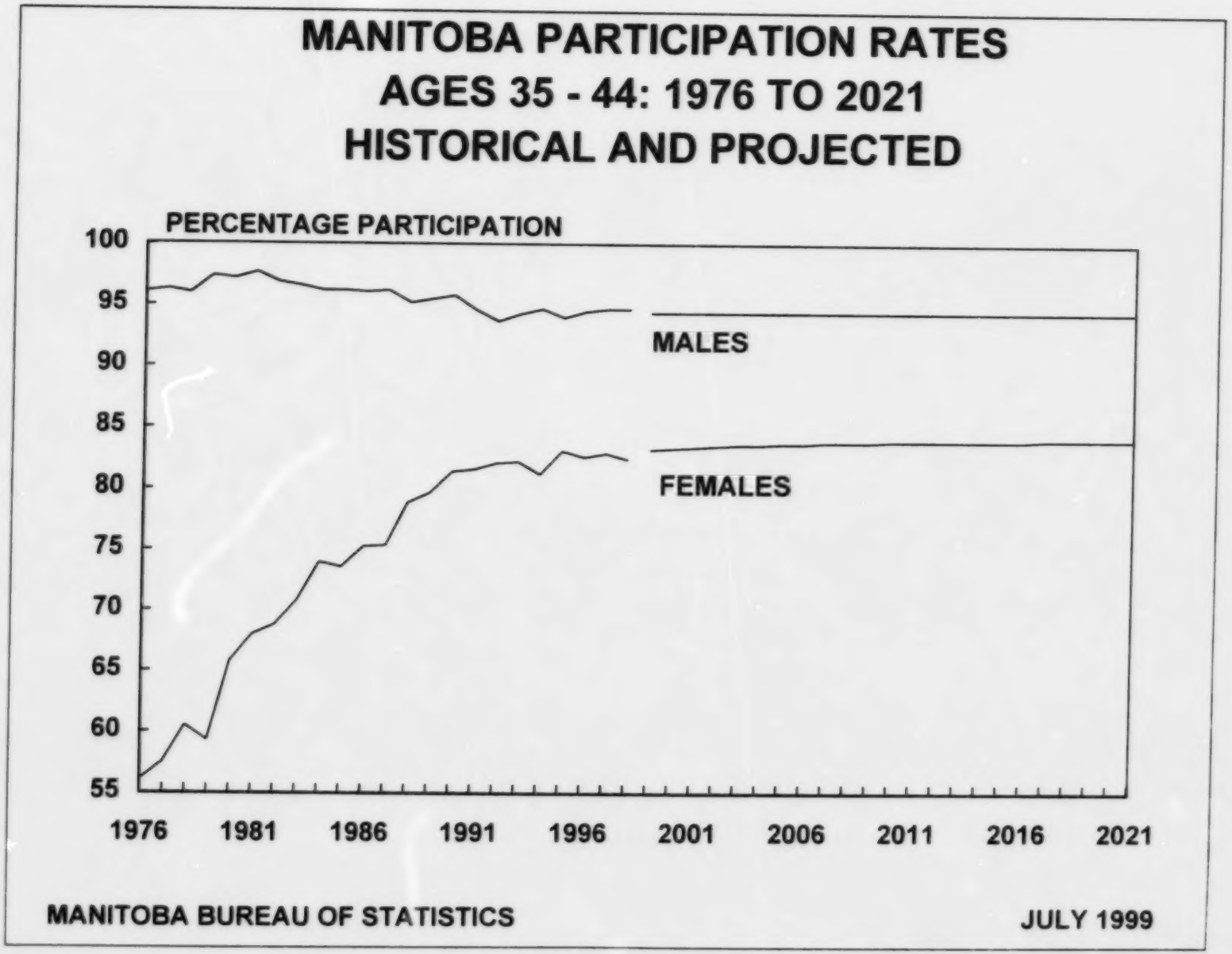

MANITOBA PARTICIPATION RATES
AGES 25 - 29: 1976 TO 2021
HISTORICAL AND PROJECTED
PERCENTAGE PARTICIPATION
100
95
90
85
80
75
70
65
60
55
50
MALES
FEMALES
1976
1981
1986
1991
1996
2001
2006
2011
2016
2021
MANITOBA BUREAU OF STATISTICS
JULY 1999

MANITOBA PARTICIPATION RATES
AGES 30 - 34: 1976 TO 2021
HISTORICAL AND PROJECTED

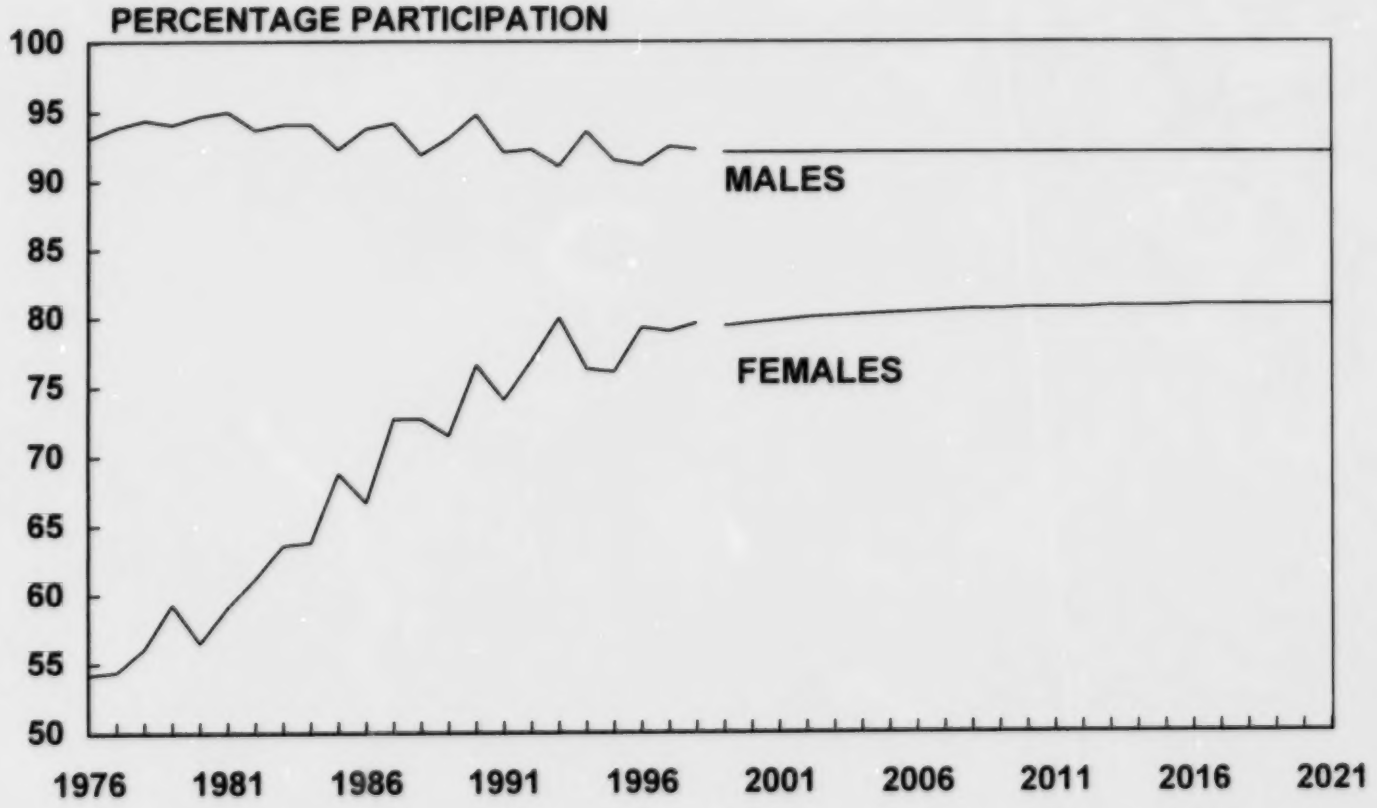


MANITOBA BUREAU OF STATISTICS

JULY 1999

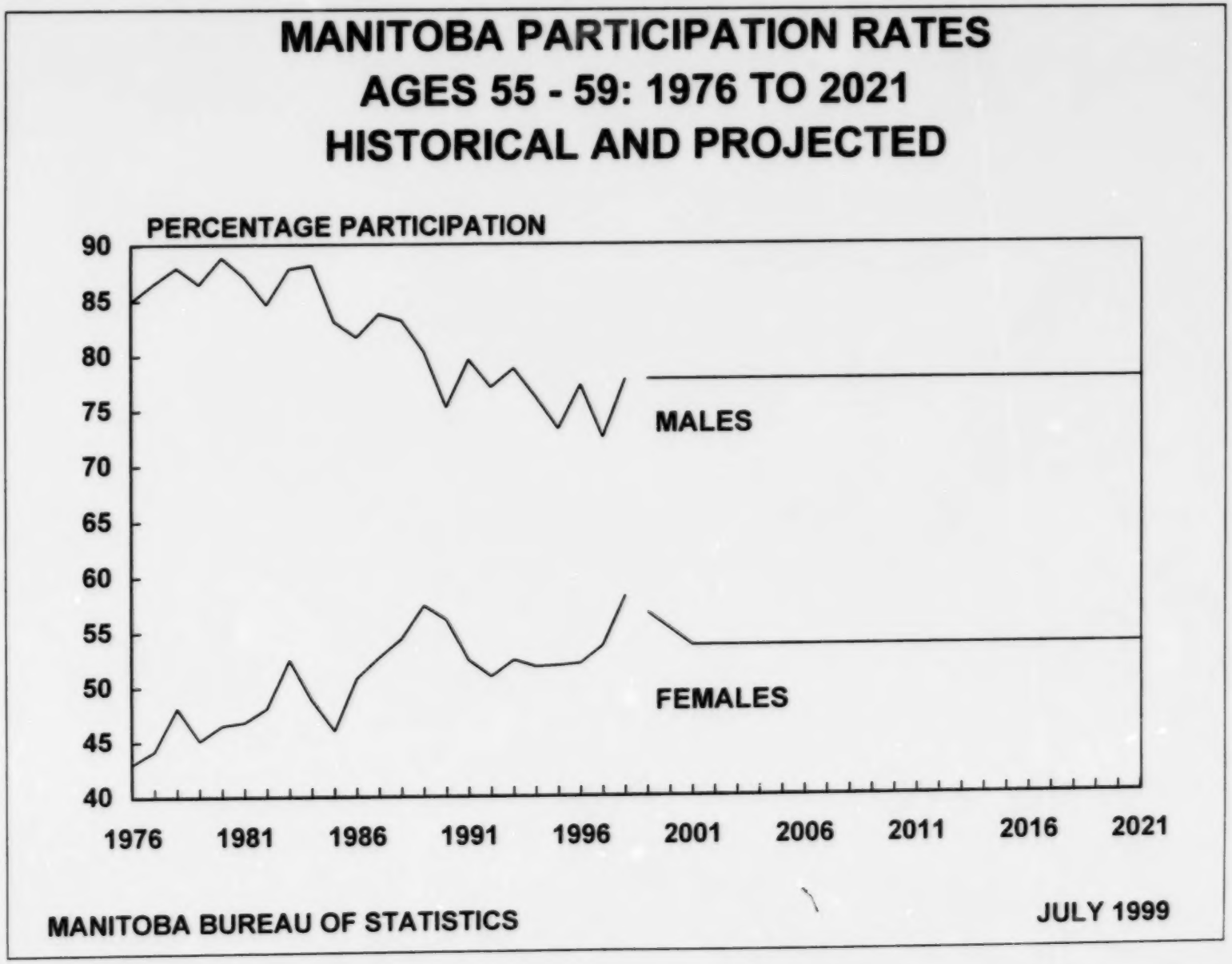

MANITOBA PARTICIPATION RATES
AGES 35 - 44: 1976 TO 2021
HISTORICAL AND PROJECTED
PERCENTAGE PARTICIPATION
100
95
90
85
80
75
70
65
60
55
MALES
FEMALES
1976
1981
1986
1991
1996
2001
2006
2011
2016
2021
MANITOBA BUREAU OF STATISTICS
JULY 1999

MANITOBA PARTICIPATION RATES
AGES 45 - 54: 1976 TO 2021
HISTORICAL AND PROJECTED

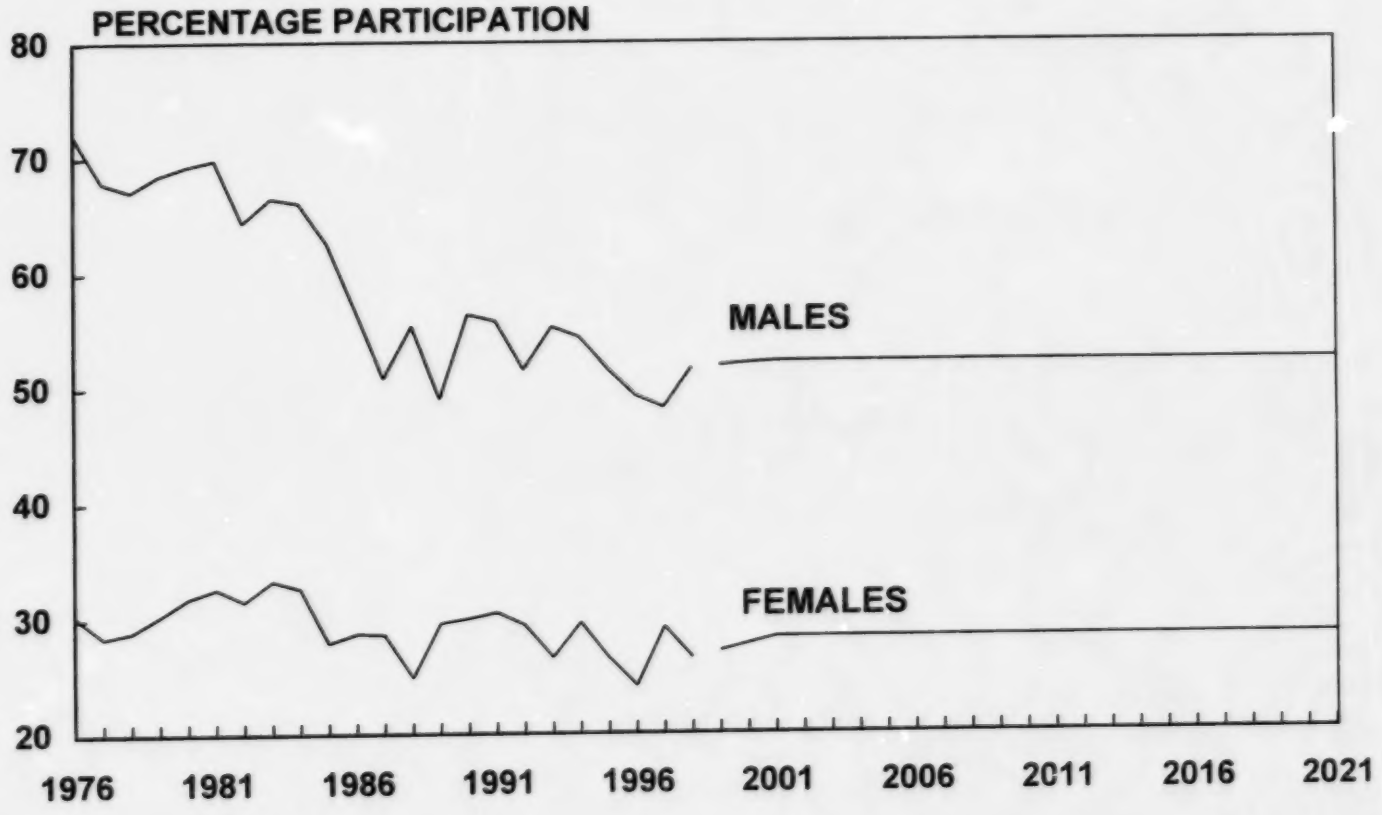


MANITOBA BUREAU OF STATISTICS

JULY 1999

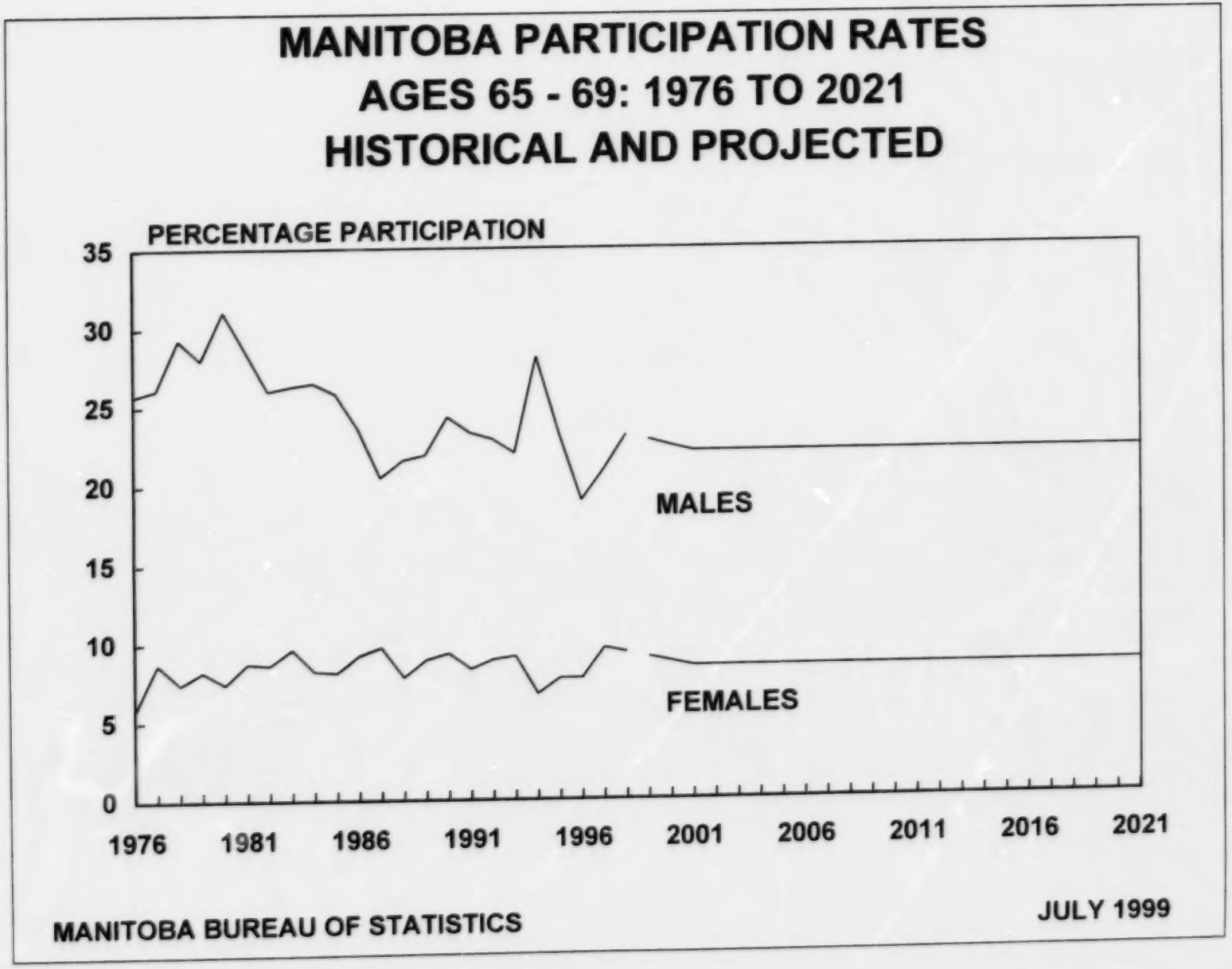

MANITOBA PARTICIPATION RATES
AGES 55 - 59: 1976 TO 2021
HISTORICAL AND PROJECTED
PERCENTAGE PARTICIPATION
90
85
80
75
70
65
60
55
50
45
40
MALES
FEMALES
1976
1981
1986
1991
1996
2001
2006
2011
2016
2021
MANITOBA BUREAU OF STATISTICS
JULY 1999

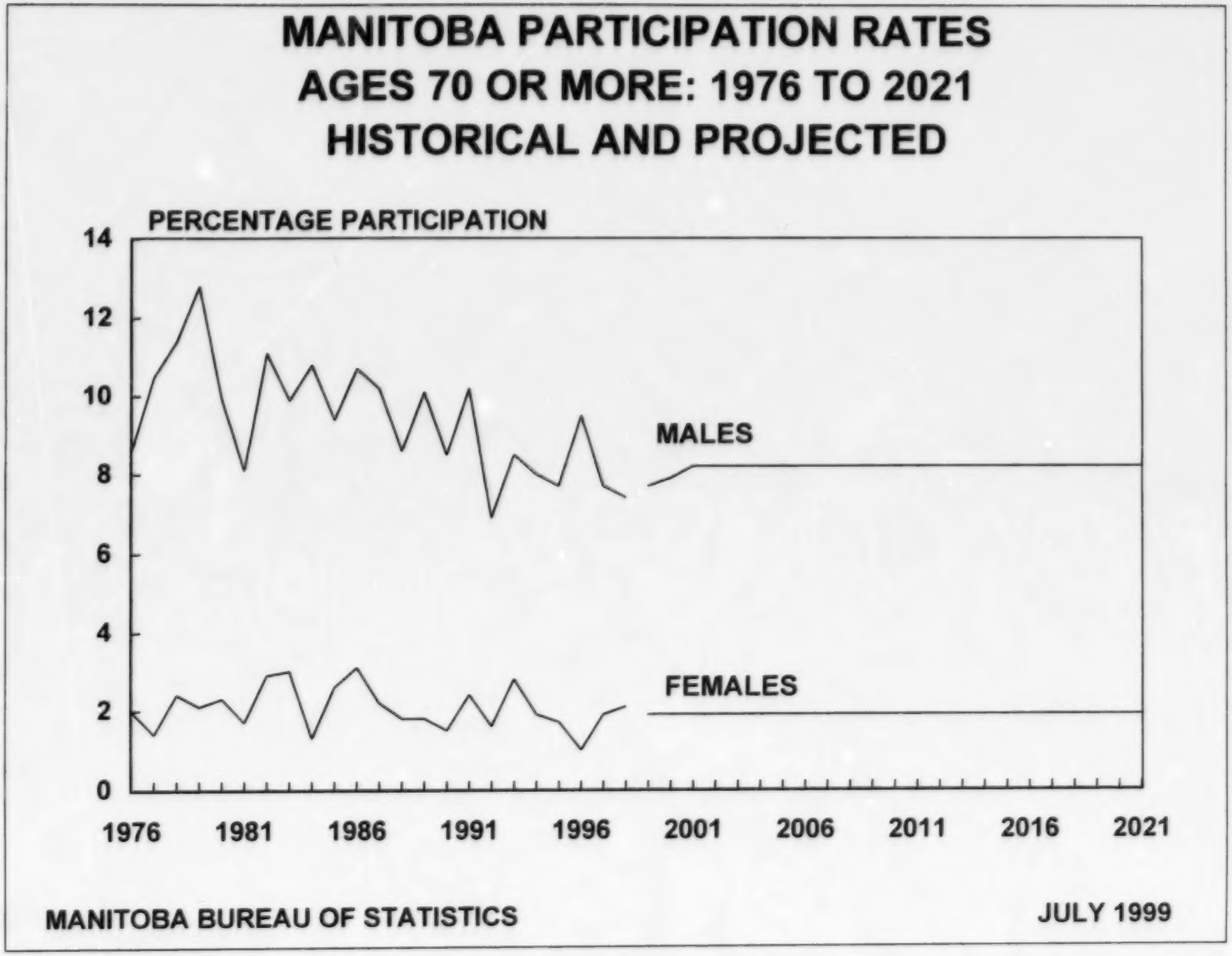
MANITOBA PARTICIPATION RATES
AGES 60 - 64: 1976 TO 2021
HISTORICAL AND PROJECTED



MANITOBA BUREAU OF STATISTICS

JULY 1999


MANITOBA PARTICIPATION RATES
AGES 65 - 69: 1976 TO 2021
HISTORICAL AND PROJECTED
PERCENTAGE PARTICIPATION
35
30
25
20
15
10
5
0
MALES
FEMALES
1976
1981
1986
1991
1996
2001
2006
2011
2016
2021
MANITOBA BUREAU OF STATISTICS
JULY 1999


MANITOBA PARTICIPATION RATES
AGES 70 OR MORE: 1976 TO 2021
HISTORICAL AND PROJECTED
PERCENTAGE PARTICIPATION
14
12
10
8
6
4
2
0
MALES
FEMALES
1976
1981
1986
1991
1996
2001
2006
2011
2016
2021
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METHODOLOGY

Historical data (1976 to 1998 annual averages) on Manitoba's age and sex specific participation rates and labour force were obtained from Statistics Canada's Labour Force Survey.

The projected labour force population is based on the Manitoba Bureau of Statistics report **Manitoba Population Projections 1996-2031.** The adjustment factors used to obtain the labour force population (civilian non-institutionalized population, aged 15 and over) from the projected total population are as follows:

AGE GROUP	MALES	FEMALES
15 - 19	0.94699	0.94586
20 - 24	0.96777	0.96886
25 - 34	0.96993	0.97845
35 - 44	0.96481	0.98309
45 - 54	0.95622	0.97402
55 - 64	0.97107	0.98813
65 or more	0.94105	0.91764

These adjustment factors, which are seven year averages (1981 to 1987), have been used since the present Labour Force Survey data is based on the 1991 Census and has not yet been updated to the 1996 Census based population estimates.

The projected labour force is then derived from the product of the projected labour force population and the projected participation rates.

Participation rates by age group and sex were projected for the years 1999 to 2021 in the following ways:

1) **Males (All Age Groups):**

The participation rates for all male age groups appear to be relatively stable for the period 1991 to 1998. Therefore, the average participation rates for these years were used as the projected rates. For the 30 to 34 age group, the average was calculated without the data from 1992 or 1994, since the values for these two years were lower than the other six years. Similarly, the projected rate for the 55 to 59 age group was calculated without the data for 1995 and 1997. The 65 to 69 age group used the average calculated without the data from 1994, as the 1994 data was considerably higher than the other years.

2) **Females 15-19, 20-24, 60-64, 65-69, and 70 or more:**

The participation rates of females in these age groups also appear to be relatively stable for the period 1991 to 1998. Therefore, the average participation rates of these groups were used as the projected rates. For the 60 to 64 age group the average was calculated without the data from 1996, which was lower than the other years.

3) **Females 25-29 and 30-34:**

The participation rates of females in these two age groups show an exponential curve that appears to be levelling off at 80.5. Therefore, this value was chosen to be the constant projected rate, and phased in over two years for the 25 to 29 age group.

4) **Females 35-44 and 45-54:**

The participation rates of females in these two age groups show an exponential growth that seems to be levelling off. An exponential curve was fitted to the data for the 1976 to 1998 time period. The resulting equations are as follows:

35 to 44 $\quad Y = 84 - 8493322 * 0.849626^{X}$

45 to 54 $\quad Y = 81 - 1573520 * 0.869774^{X}$

Where X is the Year minus 1900 and Y is the resulting projected value.

5) **Females 55-59:**

For the 55 to 59 age group, there was a sharp upturn in the participation rate during 1998: a return to the rates of 1989 and 1990. For this age group, the average was taken for the 10 year period 1989 to 1998. This will allow for a participation rate slightly higher than during most of the 1990's. This higher rate would be the result of the ageing of the younger age groups (with higher participation rates).

In order to produce a smooth transition between estimated and projected participation rates, in those age groups where it was required, a three year span (1999 to 2001) was used to phase in the projected rates.